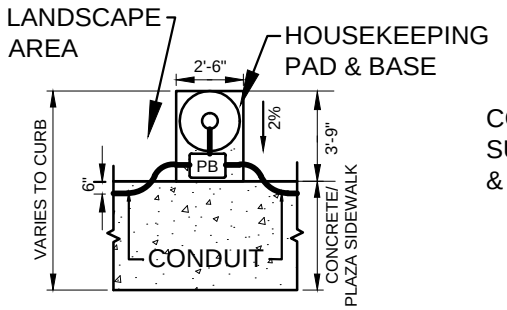
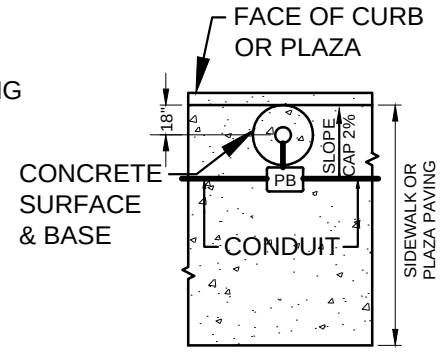
NOTES:

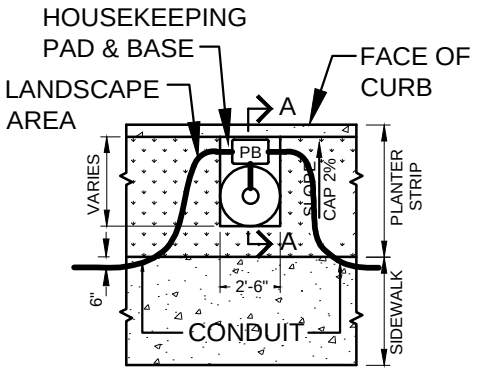
1. DEPTH AND DIAMETER OF FOOTING SHALL VARY BASED ON SOIL TYPE. REFER TO PROJECT SPECIFIC GEOTECHNICAL REPORT FOR SOIL TYPES.
2. ALL CALCULATIONS BASED ON A MAXIMUM 15' POLE HEIGHT.
3. HOUSEKEEPING PAD: DIMENSIONS FOR HOUSE KEEPING PADS ARE TYPICAL. PULL BOX SHALL BE OFFSET 3" MINIMUM FROM EDGE OF CONCRETE AND EDGE OF FOOTING AND BURIED UNDER 6" OF CONCRETE TO PREVENT THEFT. REFER TO SECTION A-A AND SHEET 4 OF 4 FOR DIMENSIONS.
4. PULL BOX SHALL BE N9 CHRISTY WITH TRAFFIC RATED, REINFORCED CONCRETE, BOLT DOWN LID.
5. CONCRETE ABOVE PULL BOX SHALL BE MARKED WITH THE LETTER "PB" TO DENOTE LOCATED FOR FUTURE FOOTING.
6. CONDUIT SHALL BE RUN UNDER CONCRETE AS DIMENSIONED IN THE PLAN VIEWS BELOW.



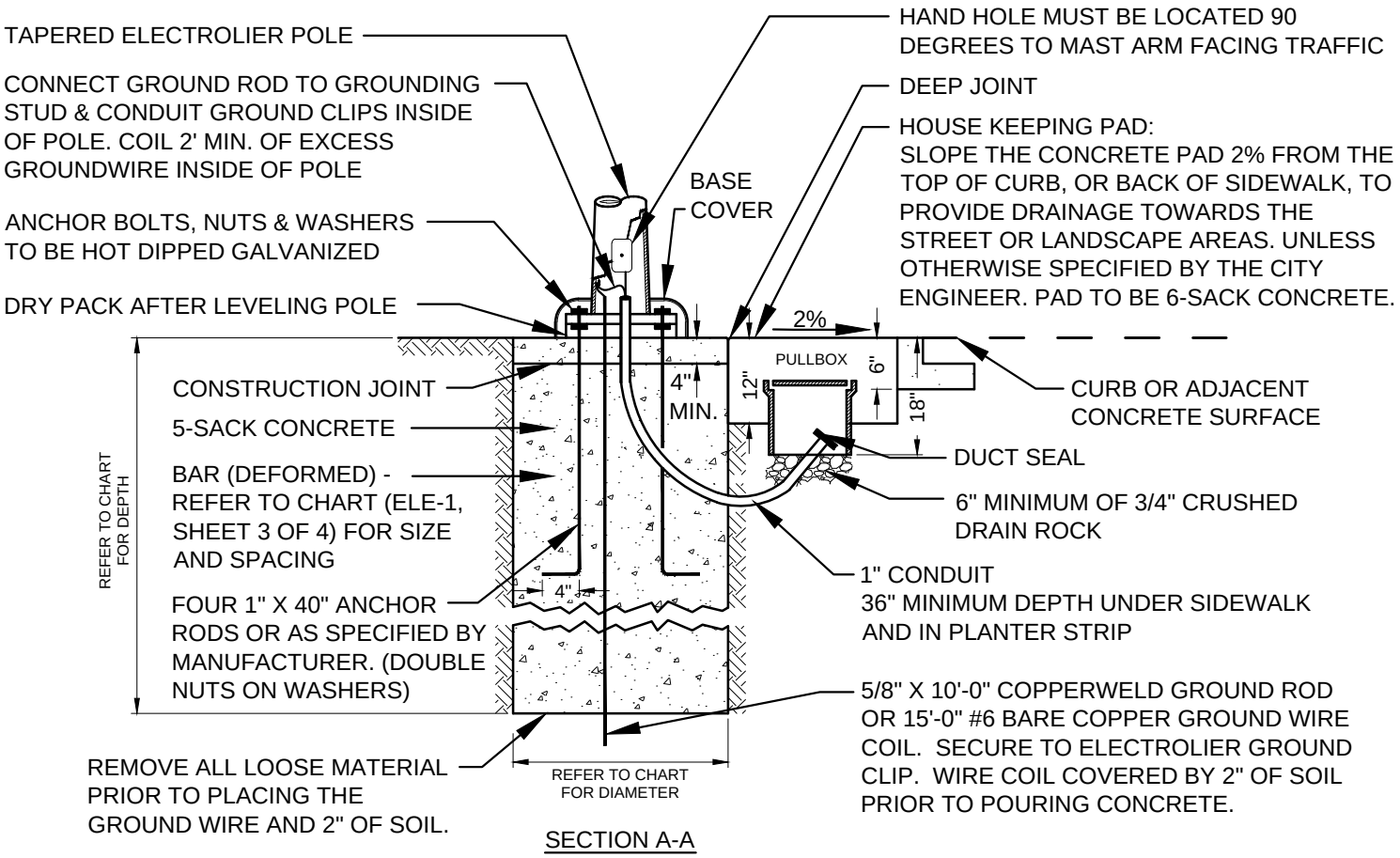
PARK PATHWAY/SIDEWALK @ LANDSCAPE



INTEGRAL SIDEWALK OR PLAZA



PARK SIDEWALK @ PLANTER STRIP



SECTION A-A

APR.	REVISED	DATE
REVISIONS		

CITY OF FREMONT

PARK STANDARD DETAILS

ELECTROLIER BASE

DATE APPROVED BY CITY COUNCIL: December 13, 2011

RESOLUTION NO.: 2011-65

SENIOR LANDSCAPE ARCHITECT

COMMUNITY SERVICES DIRECTOR

FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.	
PSD ELE-1.DWG	N.T.S.	MAM/CC	RER	11/1/2011	PSD ELE-1	1 OF 4

ELECTROLIER NOTES

1. ALL UNDERGROUND WIRING SHALL BE IN APPROVED CONDUIT. THE UNDERGROUND CONDUIT AND ALL METAL PARTS SHALL BE CONTINUOUSLY BONDED AND GROUNDED.
2. MINIMUM CONDUIT SHALL BE TYPE II, PVC OR ABS UL LISTED SUITABLE FOR DIRECT BURIAL. MINIMUM CONDUIT SIZE SHALL BE 1" BETWEEN THE POLE AND THE PULL BOX FOR AWG NO. 8 AND 1 1/2" MIN. FOR AWG NO. 6 AND LARGER. ALL CONDUIT ENDS SHALL BE PLUGGED WITH DUCT SEALING COMPOUND.
3. MINIMUM RADIUS OF BENDS SHALL BE 18 INCHES. ALL BENDS AND/OR OFFSETS SHALL BE ACCOMPLISHED WITH FACTORY FORMED SECTIONS.
4. ALL PLASTIC CONDUIT STUBS INTO BASE SHALL BE COMPLETED BY A 90° RIGID METALLIC OR PLASTIC CONDUIT ELL, AND EXTENSION AS REQUIRED.
5. PULL BOXES SHALL BE CHRISTY N-9 (OR APPROVED EQUAL). COVERS SHALL HAVE CAST BRASS HOLD-DOWN AND LUGS. A PULL BOX SHALL BE INSTALLED AT EACH ELECTROLIER. ALL PULL BOXES SHALL BE BURIED UNDER CONCRETE HOUSEKEEPING PAD TO PREVENT WIRE THEFT. CONCRETE SHALL BE INSCRIBED WITH THE LETTERS "PB" FOR FUTURE LIGHTING.
6. PULL BOXES SHALL BE NOT MORE THAN 250 FEET APART ON LONG RUNS.
7. WHERE PULL BOXES ARE SUBJECT TO TRAFFIC LOADS, THEY SHALL BE SET ON A CONCRETE FOOTING AND THE COVER SHALL BE CAST IRON OR STEEL OF SUFFICIENT STRENGTH TO WITHSTAND THE TRAFFIC LOAD (H20 LOADING). PULL BOXES SHALL THEN BE BURIED AS DELINEATED UNDER 6" MINIMUM OF CONCRETE.
8. RISERS INSTALLED ON UTILITY-OWNED POLES SHALL CONFORM TO SPECIFICATIONS SUPPLIED BY THE UTILITY COMPANY. ELECTRIC SERVICE POINT SHALL BE APPROVED BY PACIFIC GAS & ELECTRIC COMPANY.
9. CONDUCTOR SHALL BE UL LISTED AWG NO. 8 OR LARGER WITH 7 STRAND SOFT COPPER TYPE THW, THHN, XHHW, OR RHW WITH A MINIMUM OF 3/64 OF AN INCH INSULATION. HOWEVER, WIRES IN THE POLE SHALL BE MINIMUM #14.
10. NO MECHANICAL MEANS SHALL USED TO PULL WIRES SMALLER THAN NO. 1 AWG.
11. ALL SPLICES FOR GREATER THAN AWG NO. 10 SHALL BE IN PULL BOXES AND HAVE APPROVED SOLDERLESS CONNECTORS OF PROPER SIZE.
12. A FIBERGLASS OR POLYPROPYLENE PULL ROPE SHALL BE LEFT IN ALL EMPTY CONDUITS.
13. CONTRACTOR TO MEET PG&E REQUIREMENTS FOR CONDUIT AND CONDUCTORS BETWEEN THE PG&E AND CITY PULL BOXES.
14. FUSES SHALL BE LOCATED IN THE PULL BOX ADJACENT TO EACH ELECTROLIER. CONTRACTOR SHALL PROVIDE ADDITIONAL PULL BOX, PG&E SERVICE BOX, AND FUSE HOLDERS AND FUSES. IF PG&E SECONDARY BOX IS WITHIN 6' OF THE ELECTROLIER, THE ADDITIONAL PULL BOX IS NOT NEEDED.
15. ALL CONDUIT ENDS SHALL BE DUCT SEALED.
16. POLE NUMBERS SHALL BE PLACED ON ALL ELECTROLIERS. LOCATION AND SIZE OF NUMBERS TO BE AS SPECIFIED IN SECTION 32 "STREET LIGHTING SYSTEM," PAGE 26 OF THE CITY OF FREMONT STANDARD SPECIFICATIONS OR AS NUMBERED BY THE PARKS SUPERINTENDENT.
17. EACH PULL BOX SHALL BE SET ON 6" MINIMUM OF CLEAN DRAIN ROCK AND BURIED UNDER A MINIMUM OF 6" OF CONCRETE. THE EDGES AROUND THE BOX SHALL BE THICKENED TO 12" MINIMUM.
18. PULL BOXES SHALL BE PLACED AT ALL ANGLE POINTS IN CONDUIT RUNS.
19. ALL STREET CROSSINGS SHALL BE 90° TO THE CENTERLINE.
20. STREET LIGHT DESIGN FOR MORE THAN 4 LIGHTS SHALL BE STAMPED, SIGNED AND DATED BY A ELECTRICAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA.
21. BOLT EXTENDERS MAY ONLY BE USED TO RAISE AN EXISTING, UNDAMAGED POLE AND BASE TO GRADE. STRUCTURAL CALCULATIONS AND/OR CERTIFICATION FROM THE MANUFACTURER IS NEEDED FOR THE PROPOSED BOLT EXTENDER.

APR.	REVISED	DATE

REVISIONS

CITY OF FREMONT
PARK STANDARD DETAILS

ELECTROLIER NOTES

DATE APPROVED BY CITY COUNCIL: December 13, 2011

RESOLUTION NO. 2011-65

SENIOR LANDSCAPE ARCHITECT

COMMUNITY SERVICES DIRECTOR

FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.	
PSD ELE-1.DWG	N.T.S.	MAM	RER	11/1/2011	PSD ELE-1	2 OF 4

CHART FOR DEPTH OF LIGHT POLE FOOTING EMBEDMENT, d

	SURROUNDED BY TURF OR DIRT (NON-CONSTRAINED)			SURROUNDED BY SIDEWALK OR PAVEMENT (CONSTRAINED)			
FOOTING DIAMETER, b (in)	18	24	30		18	24	30
15' POLES	5'-8"	5'-1"	4'-8"		4'-0"	3'-8"	3'-4"
20' POLES	6'-8"	6'-0"	5'-6"		4'-9"	4'-4"	4'-0"
25' POLES	7'-7"	6'-10"	6'-4"		5'-6"	5'-0"	4'-8"

1. PROVIDE REINFORCEMENT AS FOLLOWS:
   a. FOR 18" DIAMETER FOOTING, PROVIDE (4) #6 LONGITUDINAL STEEL AND #3 AT 9" O.C.TRANSVERSE TIES.
   b. FOR 24" DIAMETER FOOTING, PROVIDE (6) #6 LONGITUDINAL STEEL AND #4 AT 9" O.C. TRANSVERSE TIES.
   c. FOR 30" DIAMETER FOOTING, PROVIDE (8) #6 LONGITUDINAL STEEL AND #4 AT 9" O.C. TRANSVERSE TIES.
   d. PROVIDE (3) TRANSVERSE TIES AT 1" O.C. AT THE LOWER 3" OF THE TOP 6" OF FOOTING.
2. A CONSTRAINED FOOTING IS DEFINED AS PLACED IN A HARDSCAPE AREA. A NON-CONSTRAINED FOOTING IS DEFINED AS PLACED IN A LANDSCAPE AREA.
3. REFER TO CHART FOR DIAMETER AND DEPTH FOR CLAYEY SOILS.
4. ALL FOOTING DIAMETERS CALCULATIONS ARE BASED ON A MINIMUM POLE HEIGHT OF 15 FEET TO A MAXIMUM POLE HEIGHT OF 25 FEET.

APR.	REVISED	DATE

REVISIONS

CITY OF FREMONT
PARK STANDARD DETAILS

LIGHT POLE FOOTING CHART

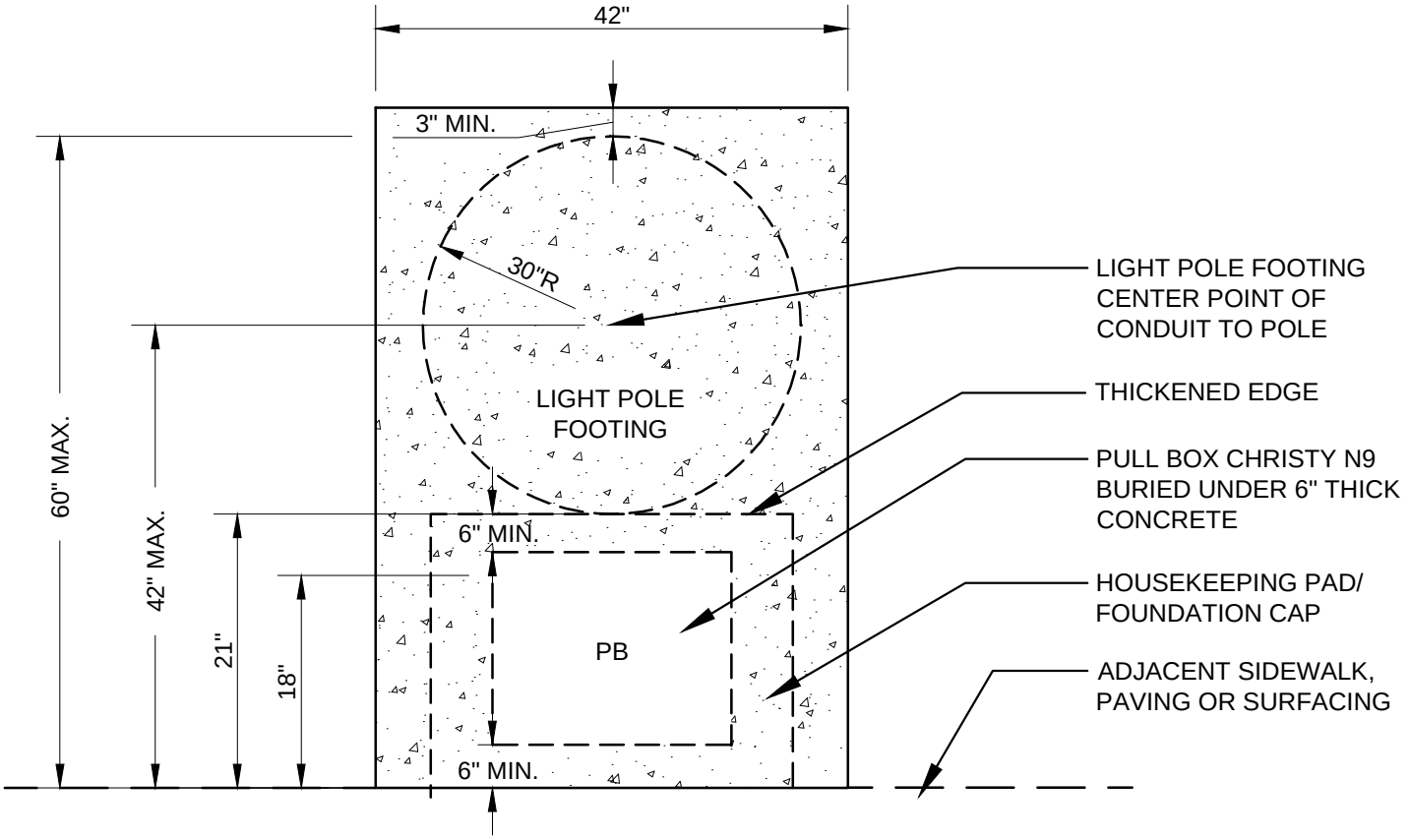
DATE APPROVED BY CITY COUNCIL: December 13, 2011

RESOLUTION NO. 2011-65

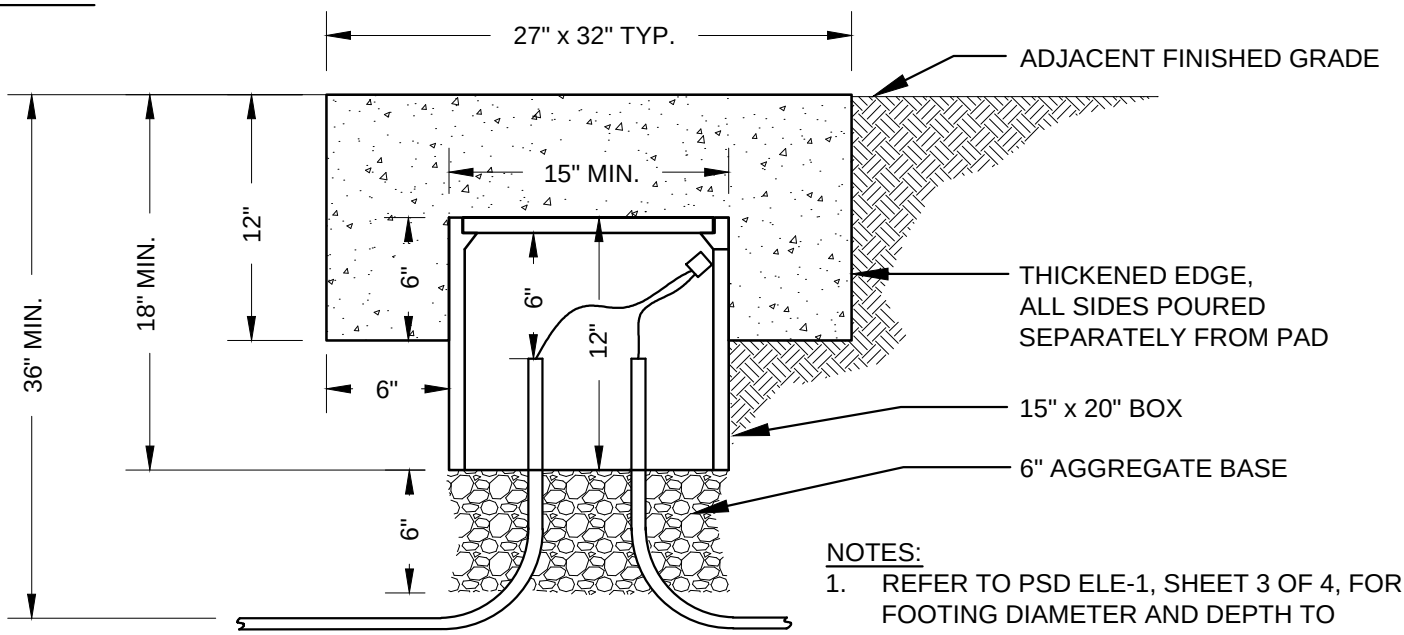
SENIOR LANDSCAPE ARCHITECT

COMMUNITY SERVICES DIRECTOR

FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.	
PSD ELE-1.DWG	N.T.S.	MAM	RER	11/1/2011	PSD ELE-1	3 OF 4



PLAN VIEW



SINGLE PULL BOX
SECTION VIEW

NOTES:

1. REFER TO PSD ELE-1, SHEET 3 OF 4, FOR FOOTING DIAMETER AND DEPTH TO DETERMINE HOUSEKEEPING PAD SIZE AND CENTER POINT OF CONDUIT TO POLE.
2. ALL NOTES DESCRIBED IN PSD ELE- 1 & ELE- 2 APPLY TO THIS DETAIL.

APR.	REVISED	DATE

REVISIONS

CITY OF FREMONT

PARK STANDARD DETAILS

HOUSEKEEPING PAD AND PULL BOX

DATE APPROVED BY CITY COUNCIL: December 13, 2011

RESOLUTION NO.: 2011-65

SENIOR LANDSCAPE ARCHITECT

COMMUNITY SERVICES DIRECTOR

FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.	
PSD ELE-1.DWG	N.T.S.	MAM	RER	03/28/2011	PSD ELE-1	4 OF 4